

Applicant: Williams et al.
For: APPARATUS AND METHOD FOR MEASURING THE MASS OF A
SUBSTANCE

ABSTRACT OF DISCLOSURE

An apparatus for measuring the mass of a substance includes a sensor having a
membrane layer, the membrane for receiving the substance thereon, an oscillator device for
driving the membrane at a reference resonant frequency, a frequency detection device for
5 determining a change in the reference resonant frequency caused by the presence of the
substance on the membrane, and a mass determining device for determining the mass of the
substance, the change in the reference resonant frequency being indicative of the mass of
the substance.